

Notice of Allowability

Application No.

10/814,736

Applicant(s)

CHAMBERLAIN ET AL.

Examiner

Yaima Campos

Art Unit

2185

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/29/06.
2. ☒ The allowed claim(s) is/are 1-12, 14-19, 24 and 25.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

I. RELEVANT ART CITED BY THE EXAMINER

1. The following prior art made of record and not relied upon is cited to establish the level of skill in the applicant's art and those arts considered reasonably pertinent to applicant's disclosure. See **MPEP 707.05(c)**.
2. The following reference teaches logic for storing a separate mask corresponding to each of a plurality of memory locations, and logic, responsive to a request for reading a memory location, for outputting a bit-wise exclusive-OR of data stored in the memory location and the corresponding mask.

U.S. PATENT NUMBER

US 6,167,472

3. The following reference teaches a conversion tool that generates configuration data describing a detailed restructure indication to enable the program executing apparatus to restructure the address, and a program making access to the restructured address.

U.S. PATENT NUMBER

US 6,883,080

II. REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:
2. Per the instant office action, **claims 1-12, 14-19, 24 and 25** are considered as allowable subject matter. Claims 13 and 20-23 have been cancelled by Applicant.

3. As per claims 1 and 25

The primary reasons for allowance of claims 1 and 25 in the instant application is the combination with the inclusion in these claims of the limitation of a method/computer program product for allocating memory in a data processing system wherein a memory allocation request received from a running process includes “an indication of a mask bit pattern”.

4. As per claim 14

The primary reasons for allowance of claim 14 in the instant application is the combination with the inclusion in this claim of the limitation of a “decoding the memory address by replacing the one or more embedded flag bits with bits of the memory address, in dependence on the mask bit pattern, and reading data from that memory address.”

5. As per claim 15

The primary reasons for allowance of claim 15 in the instant application is the combination with the inclusion in this claim of the limitation of a memory allocation mechanism wherein a memory allocation request received from a running process includes “a mask bit pattern”.

6. Dependent claims 2-12, 16-19 and 24 are allowable at least for the reasons recited above as including all of the limitations of the allowable independent base claims upon which they depend.

7. The prior art of record neither anticipates nor renders obvious the above-recited combinations.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

III. DIRECTION OF FUTURE CORRESPONDENCES

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yaima Campos whose telephone number is (571)272-1232. The examiner can normally be reached on Monday to Friday 8:30 AM to 5:00 PM.


IMPORTANT NOTE

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on (571)272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 14, 2006

Yaima Campos
Examiner
Art Unit 2185


SANJIV SHAH
PRIMARY EXAMINER

